Project Design Phase-IITechnologyStack(Architecture&Stack)

Date	16November2022	
TeamID	PNT2022TMID32337	
ProjectName	AlbaseddiscourseforBankingIndustry	
MaximumMarks	4 Marks	

TechnicalArchitecture:

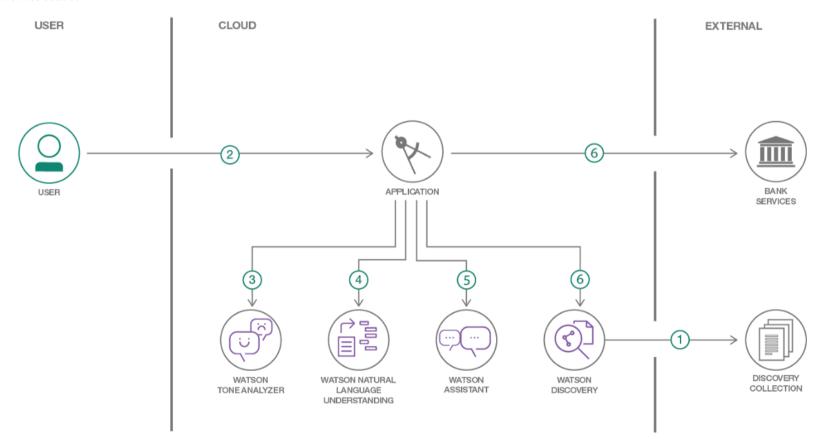


Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	Interface through which the user interacts withapplication.	Python/Flask
2.	ApplicationLogic-1	The systemistrainedin suchawaythat itsolves queriesrelated toSavingsAccount	IBMWatsonAssistant
3.	ApplicationLogic-2	The systemistrainedinsuch awaythat itsolvesqueries relatedtoLoanqueries.	IBMWatsonAssistant
4.	ApplicationLogic-3	The systemistrainedinsuch awaythat itsolvesqueriesregardingNetBankingandothergenera I queries.	IBMWatson Assistant
5.	CloudDatabase	DatabaseServiceon Cloud	IBMDB2,IBMCloudant.
6.	MachineLearningModel	Machinelearningmodelshelpintheprocessofenchanci ngchatbotresponses.	NaturalLanguagesProcessing
7.	Infrastructure(Server/Cloud)	Chatbotwouldbeintegrated toaflaskwebpageanddeployedonaCloudServer	Local,IBMCloud.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	The proposed model is incorporated with Flaskwhichisanopen-sourceframeworkused fordevelopingwebapplicationsusingpython,impleme ntedonWerkzeugandJinja2.	Flask
2.	SecurityImplementations	IBM Cloud encrypts the data in database andstorage services with built-in encryption. Forhigher levels of data protection, you can managethe encryption keys that encrypt the data at rest.Forsensitivedata,gaincontrolofencryption keysby usingBringYourOwnKey(BYOK)withIBM CloudKeyProtect.	IBMCloud

S.No	Characteristics	Description	Technology
3.	ScalableArchitecture	The chat bot can be enchanced by creating andaddingintentsandbybuildingdialog,actionskills.	IBMWatson Assistant
4.	Availability	The chatbotis madeavailable24*7	IBMWatson Assistant
5.	Performance	Watson Assistant provides customers with fast, consistent and accurate answers across anyapplication, device or channel. Using AI, WatsonAssistant learns from customer conversations, improving its ability to resolve is suesthe first time while removing the frustration of longwait times, tedious searches and unhelpful chatbots.	IBMWatson Assistant